



## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/760,637	(	01/16/2001	Jay A. Hobson	P5474 US 5516	
24726	7590	04/11/2003			
SUN MICE			EXAMINER		
901 SAN ANTONIO RD MS PALO1-521				SINGH, DALIP K	
PALO ALT	PALO ALTO, CA 94303			ART UNIT	PAPER NUMBER
				2676	2
		•	DATE MAILED: 04/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.



Application No.   Applicant(s)   App	•							
Examiner   Art Unit   2676	•	Application No.	Applicant(s)					
Period for Reply  A SHCRTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply  A SHCRTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extraorist of time rays to evaluable under the provisions of 37 CFR 1.13(a). In no event, however, may a reply bettinely fixed attention (SMONTHS) from the mining date of this communication.  If the period for rouly specified above is less than thirty (30) days, a reply which the statutory interium of thirty 200 day and to accordance of the correvulcation. If the period for rouly specified above is less than thirty (30) days, a reply which the statutory interium of thirty 200 days and to accordance with the practice under Expand (SMONTH) and the statutory interium of the thirty of the correvulcation. Pathetic terms objection. Set of CR 1.76(b).  **Status**    □ Responsive to communication(s) filled on		09/760,637	HOBSON, JAY A.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extractors of inempty be resident under the providence of 3 CFR 1.13(6). In or over, however, may a reply be limely filed or the period for reply specified above. The instrumination of 3 CFR 1.13(6). In or over, however, may a reply be limely filed or the period for reply specified above. The instrumination period vall goal and larged Step (0.00 MONTH) for the mailing date of this communication. Fellow the period for reply specified above. The mailing object of the communication is become ABANCOKED (30 U.S.C. § 1.35).  Fallule to reply within the soft or early will, by statuto, cause the application to become ABANCOKED (30 U.S.C. § 1.35).  Fallule to reply within the soft or early will, by statuto, cause the application to become ABANCOKED (30 U.S.C. § 1.35).  Fallule to reply within the soft or early will, by statuto, cause the application to become ABANCOKED (30 U.S.C. § 1.35).  Fallule to reply within the soft or early will, by statuto, cause the application to become ABANCOKED (30 U.S.C. § 1.35).  Fallule to reply within the soft or early will, by statuto, cause the application to the communication (5) filed on	Office Action Summary	Examiner	Art Unit					
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE § MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  after SX (e) MONTHS from the mailing date of this communication.  If the period for rely specified shows, the maintains standard present or rely specified shows, the maintains standard present term shows and sea than the maintains of the period of the communication.  If NO period for rely is specified shows, the maintains shows the standard present term shows and the maintains of the standard present term shows and the relation shows the maintains of the maintains of the standard present term shows and the relation shows the specified shows, the maintains are the maintains of the scannard present term shows and the standard present term shows and the stan			<u> </u>					
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.13(a). In or event, however, may a reply bet limitely fled after 5X: (8) MCNT-IS from the realizing date of the communication.  If the period for reply specified afters is also the intermediate of the communication.  If the period or reply specified afters is also that the provision of the communication or reply with the substancy minimum of thiny (30) days and the common X6 (4) MCNT-IS from the realizing date of this communication.  Failure to reply within the set or cotended panel of the reply will, by statute, cause the application to become ABANDONED (81 U.S.C. § 133).  Any toply received by the Official set than three morning after the making date of this communication, even if timely fled, may reduce any control of the communication of the comm								
2a) This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-23 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved by the Examiner.  If approved, corrected drawings are required in rely to this Office action.  12) The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C.	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5, 10-15 and 20-23 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,592,594 to Cahoon.
  - a. Regarding claims 1 and 11, Cahoon **discloses** a method for retrieving images for display on an output device (printer 10), said method comprising: retrieving a bitmap from a cache (character cache 26) when the bitmap generates a match with an image selected for display on said output device (printer 10) (.. font character data is maintained in a cache memory in bit map form...during a print operation...character cache 26 is searched...if a match is found...a pointer to character cache 26 is returned...col. 1, lines 55-56; col. 3, lines 1-15); and storing in the cache a bitmap representing the selected image, if the selected image does not generate a match with any bitmap stored on the cache (character cache 26) (...if a match in not found...signifying that the character is not in character cache 26...to make room in character cache area 26 for the new character data...col. 3, lines 15-21).

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b. Regarding claims 2 and 12, Cahoon **discloses** wherein: the image selected for display comprises a character associated with a font set (...font character data is maintained...col. 1, lines 55-56).

- c. Regarding claims 3 and 13, Cahoon **discloses** wherein said storing further comprises: assigning a unique identifier (character ID field 40) to a bitmap stored in the cache (character cache 26) (...character data is stored...includes a character ID field 40 which is a unique identifier...col. 2, lines 58-61).
- d. Regarding claims 4 and 14, Cahoon **discloses** wherein said method further comprises: including the unique identifier of a bitmap stored in the cache in a file (character data structure, Figure 2...character data is stored in the form...col. 2, lines 58-65) sent to an output device (printer 10).
- e. Regarding claims 5 and 15, Cahoon **discloses** wherein said method further comprises: retrieving from the cache (character cache 26) the bitmap corresponding to the unique identifier (character ID) in response to a request to display said file on said output device (printer 10)(...in response, character cache 26 is searched...by examining...list of character ID structures...a pointer to character cache 26 is returned...indicates...the character record...col. 1-15).
- f. Regarding claims 10 and 20, Cahoon **discloses** wherein the output device comprises a printer (printer 10).
- g. Regarding claim 21, it is similar in scope to claim 1 above and is rejected under the same rationale (See Figure 1).
- h. Regarding claim 22, it is similar in scope to claim 2 above and is rejected under the same rationale.

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i. Regarding claim 23, it is similar in scope to claim 4 above and is rejected under the same rationale.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 6-9, 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,992,594 to Cahoon in view of U.S. Patent No. 5,515,081 to Vasilik.
  - a. Regarding claims 6 and 16, Cahoon **does not disclose** wherein: the cache comprises a linked list data structure having length elements. Vasilik **discloses** in the realm of bitmaps being employed for software developments whereby object modules are linked with other object modules similar to the linked list data structure having length elements.. Furthermore, Vasilik **disclose** the advantage of encoding the size, position, mask and ID into the actual bitmap resources itself. Therefore it would have been obvious to a person of ordinary skill in the art at the time invention was made to modify Cahoon with the feature "linked list data structure" as taught by Vasilik **because** it allows for changing images without having to alter the program which uses them and also space savings are realized (col. 2, lines 20-33).
  - b. Regarding claim 7-9 and 17-19, Vasilik **discloses** determining size, position and identity of each image within a multi-image bitmap, size

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computation from the distance between the brackets, position computed relative to the position of the surrounding brackets similar to elements organized in order of increasing length values, the length value of the bitmap and associating the bitmap with the length element to a length value of the bitmap, and associating the bitmap with a width element corresponding to a width value of the bitmap, wherein the width element is associated with the length element corresponding to the length value of the bitmap. Vasilik thus similarly discloses traversing the linked list data structure when the cache is used for bitmap retrieval. (col. 3, lines 10-36). Therefore, it would have been obvious to a person of ordinary person skill in the art at the time invention was made to modify Cahoon with the feature "linked list data structure and search array string" as taught by Vasilik **because** it reduces the workload on the developer's side (col. 9, lines 10-67; col. 10, 1-42).

#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Dalip K. Singh** whose telephone number is **(703) 305-3895**. The examiner can normally be reached on Mon-Thu (8:00AM-6: 30PM)
Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella, can be reached at (703) 308-6829.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

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# (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

dks

April 8, 2003

MATTHEW C. BELLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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